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Acylation of β-dicarbonyl and β-ketophosphonic compounds

Arbuzov B., Sakhibullina V., Polezhaeva N.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

1. The sodium derivatives of acetylacetone and acetoacetic ester react with dimethylphosphoryl chloride to give the corresponding enolphosphates. 2. The sodium derivative of phosphanoacetic acid is acylated by acetyl chloride at the oxygen atom. 3. The acylation of the Na derivative of the trimethyl ester of phosphonoacetic acid with AcCl gave the trimethyl ester of α-acetylphosphonoacetic acid. The K derivative of the phosphonoacetic ester is acylated by AcCl at both the carbon and the oxygen. © 1976 Plenum Publishing Corporation.

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